

Abstract

Proposed is a method of calculating the Voltage Standing Wave Ratio of a radio frequency transmission line which is operatively coupled with a first and a second directional coupler, the first directional coupler developing a first voltage indicative of the forward power propagating along the radio frequency transmission line in a first direction, the second directional coupler developing a second voltage indicative of a reflected power propagating along the radio frequency transmission line in a reverse direction. The method is characterized by the steps of, in a second stage of installation, collecting values of the first and the second voltage, connecting at least one correction value with the second voltage to form a corrected second voltage, and forming the Voltage Standing Wave Ratio on the basis of the first voltage and the corrected second voltage. The correction value is obtained in a calibration process in a first stage of installation. Further, a base station in a mobile communication system implementing this method is disclosed.